

Manufacturer Specification Summary – Proposed Steel Windows (Clement EB20)

Flat 20, Southwood Hall, Muswell Hill Road, London

Introduction

This document provides a summary of the proposed window system to be used in the replacement of existing windows at Flat 20, Southwood Hall.

The proposed windows are from the Clement EB20 steel window range, selected as a modern, heritage-appropriate system designed to closely replicate the appearance of traditional steel windows while incorporating improved performance.

This summary is based on manufacturer technical information for the Clement EB20 system.

Product Overview

The Clement EB20 system has been developed for projects where the appearance of original steel windows is to be replicated as closely as possible.

The system is designed to replicate the proportions, sightlines and glazing patterns of traditional steel windows, while providing the benefits of modern construction, including improved thermal performance, durability and security.

Heritage and Design Characteristics

- Slim steel profiles designed to match traditional Crittall-style windows
- Replication of existing glazing bar patterns and opening configurations
- 20mm insulated glass units provide an increased “shadow line”, closely reflecting the appearance of traditional putty-glazed windows
- Widely specified in heritage and conservation-sensitive contexts

Thermal and Energy Performance

- Complies with Part L of the Building Regulations (2021)
- Can achieve a Window Energy Rating (WER) of B, depending on specification
- Double-glazed units comprise:
 - 4mm inner pane
 - 12mm krypton-filled cavity
 - 4mm outer pane
- Centre pane U-value of approximately 1.1 W/m²K (glass unit)

Materials and Manufacture

- Frames manufactured from hot rolled mild steel profiles
- Steel sections precision rolled to achieve slim and consistent profiles
- All frames:
 - Hot dip galvanised to BS EN ISO 1461
 - Finished with polyester powder coating to BS EN ISO 13438
- Manufactured in accordance with BS 6510:2010
- Production processes certified to:
 - ISO 9001 (Quality Management)
 - ISO 14001 (Environmental Management)

Glazing and Configuration

- Double-glazed 20mm insulating glass units with warm edge spacers
- Range of glazing bar options, including welded and applied systems, to replicate traditional detailing
- Configurations include fixed, side-hung, top-hung and bottom-hung casements

Performance

Tested performance includes:

- Air permeability: Class C4
- Water tightness: Class C5
- Wind resistance: Class C5
- **Acoustic performance:** typically around 30 dB sound reduction, depending on configuration
- **Security performance:** Can achieve PAS 24:2016, where specified

Summary

The Clement EB20 system has been selected as a modern equivalent to traditional steel windows, enabling:

- Close replication of the original window appearance
- Retention of architectural character within the conservation area
- Improved thermal efficiency and environmental performance
- Durable, low-maintenance construction suitable for long-term use

The proposed specification supports a like-for-like replacement approach, ensuring that the external appearance of the building is preserved while delivering necessary performance improvements.

Manufacturer Details

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